HW#25Hb: Area & Circumference of Circles

Honors Geometry

Due Date: Monday, Oct. 27th

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_

**Failure to show work on all problems or use complete sentences will result in a LaSalle.**

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| 1) The circumference of the circle 22 ft. Find the area. | 2) Find the circumference of the circle below: | | | 3) A car tire has a circumference of 64 inches. What is the diameter of the wheel? What is the radius? |
| 4) The perimeter of a rectangle is 42 centimeters. The width of the rectangle is twice as long as its length. Find the length and width of the rectangle. | | | 5) Find the area of the circle below: | |
| 6) Find the radius and diameter of a circle if the area is 359.7 yd2 How many 1 foot by 1 foot tiles would be needed to cover both a floor that is 15 feet by 9 feet and a 4 foot by 8 foot long hallway? | | 7) A square has area of 169 in2. Find the side length and perimeter of the square. | | 8) What is the circumference of the circle? |
| 9) How many millimeters long is the diameter of a circle whose area is 49 mm2 ? | | 10) Find the circumference of a circle if the area is 387.1 m2. | | 11) Find the circumference of a circle if the area is 482.3 m2. |

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1) Each tile below measures 30 in by 30 in.

a. What is the perimeter and area of this rectangle?

b. Make a new rectangle with the same perimeter but different area and give the length and width using the same size tiles.

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